

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/30023

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : H04N/5/91
US CL : 386/95, 125

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 386/95, 125, 126, 112

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
NONE

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
EAST data base

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6,449,352 B1 (TAKAHASHI et al) 10 September 2002 (10.09.2002), columns 8-10, Figures 3, 21.	1-27
Y	US 2001/0041060 A1 (OHARA et al) 15 November 2001 (15.11.2001), page 2, Figure 1.	1-27
Y	US 2001/0055318 A1 (OBATA et al) 27 December 2001 (27.12.2001), page 3, Figure 2.	1-27
A	US 5,590,202 A (BESTLER et al) 31 December 1996 (31.12.1996), column 3.	1-27

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"T"

later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"E" earlier application or patent published on or after the international filing date

"X"

document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"Y"

document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"O" document referring to an oral disclosure, use, exhibition or other means

"&"

document member of the same patent family

"P" document published prior to the international filing date but later than the priority date claimed

Date of the actual completion of the international search

17 January 2004 (17.01.2004)

Date of mailing of the international search report

27 JAN 2004

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Authorized officer

HUY T NGUYEN

Facsimile No. (703)305-3230

Telephone No. (703) 306-0377